

Membership Application
PIKES PEAK RADIO AMATEUR ASSOCIATION

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Are You An ARRL Member? ☐ Yes ☐ No Telephone _____

Full Member \$12.00 ☐

Family Membership \$15.00 ☐

Additional Names _____ Calls _____

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Ø BEAT

NOVEMBER 1984

COLORADO SPRINGS,
COLORADO



Frank Drake KL7IPV
4964 Harvest Lane
Colorado Springs, CO 80917

FIRST CLASS MAIL



Ø BEAT



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ZERO BEAT is published monthly in the interest of the the members of the Pikes Peak Radio Amateur Association Inc., Colorado Springs, Colorado. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 10 S. Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Frank Drake KL7IPV, 4964 Harvest Rd. Colorado Springs, CO 80917 597-2406

COMPUTER CORNER

FROM THE DESK OF YE OLDE EDITOR

Let me start this month out by giving a big thank you to all those who help with this newsletter every month. I will try to remember you all, but if I don't, do not be offended. There are lots of you out there and I don't get to all the breakfasts to see who you are. I must first thank Don Lohse because he has continued to help and direct me when I was unsure. He still pastes the ads up and puts them in when I don't have the ad. He also runs this to the printer when he gets the ads in for Jess. There is also Les, who most of the time picks these up from the printer. Then there are all those who fold and do the stapling at the breakfast and then stamp to get the letter to you members.

That is the manual part of this operation. There are many of you who are now calling me or dropping off articles for use in the letter. THE HELP I receive from all of you makes this task less a job but more a club creation. I really do appreciate what you all contribute and think I went to long without saying so. THANKS again to you all. This months contribution comes in the way of the WORLD RADIO newspaper provided by Mark Stang, WB9NFE. Thanks, Mark. The board has approved, and I have ordered, a club subscription to WORLD RADIO for use in getting more articles for this newsletter. I will have them at the meeting for all of you to read. This month will start a program for great circle bearings that will take about three months to run. I also have included a questionnaire for you to fill out and take to the club meet or mail to me. The results will be in the newsletter for January. That should give enough time for you all to get them to me. I have also found that there is an interest growing in RTTY, Packet and ATV. I will try to run one or two articles on those each month so that more of you can find out what they are and, maybe, become more involved in them. If anyone of you have a favorite project on one of those, let me get it into this newsletter for all to enjoy. There are many things that this hobby has to offer that we should help others become familiar with. Thats it for this month. Keep those card and letters coming! 73, FRANK

The regular meeting of the Pikes Peak Radio Amateur Association was called to order September 12, 1984 at 7:35 pm. There were 46 members and guests present.

After introductions, Jay Tucker and Don Baker with the Pikes Peak Auto Hill Climb made a presentation to the club. They indicated they are responsible for the safety on the mountain. They have a need for "professional" communications on the hill and have asked the PPRAA for their support. The Hill Climb will be held July 13, 1985 and quite a few people will be required to provide communications. The Board and membership will discuss the proposal in the near future and give a reply. There was some concern as to the legality of becoming involved with the organization but it appeared there would not be a problem.

It was announced there will be a VHF conference on October 5, 6, 7; posters and other information should be available soon.

Mark, WB9NFE, presented the program as an "Intro to Oscar" and reviewed the history of the amateur satellite program. Our thanks to Mark for his presentation.

After the break, the regular business meeting was held. Les, KC0NC, reported the treasury had income of \$71.71 and expenses of \$220.00 leaving a balance on September 12 of \$1578.66. Mark, N0EPF, reported the ARRL has begun publishing a packet radio newsletter. He has a copy for anyone's perusal and hopefully some of the articles can appear in B-Beat.

The Novice classes will begin September 18 and run for 8 weeks. They will be at North Junior High on Tuesdays and Thursdays at 7:30 pm. If any members or others would like to be available as a sub or as a teacher for one or two nights during future classes, please contact Mark, N0EPF.

The club need to pick up its equipment stored at the Calvin's. Anyone got an empty garage--or other ideas?

A discussion followed on the format of the meetings with the program being held first. Apparently not everyone liked the idea. A motion was made that the changing of the program order be brought up at the next meeting to see if members want the setup of having the program first or want the old setup with a possible exception for outside speakers. After a second and more discussion, the motion passed 19-5.

Another discussion was held concerning the Volunteer Examiner program. The club made it clear they are not involved in the VE program and that there are no requirements that any classes must be taken in order to take the novice test or to upgrade ones license.

The above business completed, the meeting was adjourned at 9:50 pm. The next regular meeting will be October 10, 1984 at which the elections will be held.

Respectfully submitted,
Mark, N0EPF

THE BOMB SQUAD

The BOMB Squad (Best of Mt. Baldy) will operate W6HCP (Hollywood Christmas Parade) from 1600 Z on 25 November to 0400Z on 26 November. Operation from the parade communications center of the 1984 Hollywood Christmas Parade will be on 7.284, 14.284 and 21.284 MHz SSB. Send SASE to John Shaffer, W6GVR, for a special commemorative QSL. Address is: 1549 N. Euclid Ave., Upland, CA. 91786

If it's CW, it's communications.

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CW

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The board meeting of the Pikes Peak Radio Amateur Association was called to order October 22, 1984 at 7:13 p.m. at the home of Oak, K0R0L. The meeting was held a week late because of the snowstorm on the 15th. Present were Oak, Mike-K0TER, Frank-XL7IPV, Al-N0CMW, Mark-N0 EPF, Les-K0NC, Mark-WB9NFE, and AH6AP.

Discussion began with the trailer. It needs a good paint job. Al moved, Les seconded to look into the possibility of having a professional job done. Could we find someone to donate the job for advertising? What would the cost be, etc.? The motion passed unanimously.

Oak indicated he has the roster of the Rocky Mountain Packet Association. He feels this is an up and coming field.

Oak moved, Mark seconded to have the club purchase World Radio Magazine for use by the editor in Q-Beat and by members. The subscription would cost \$10 per year. The motion passed unanimously.

The Christmas Party was again discussed. Frank moved, Mark(NFE) seconded that there be a party in December. The motion passed unanimously. Frank will check into possible locations at a reasonable price.

The club has received information from the FCC regarding a concern they have about possible use of bootleg calls. If there is a problem, they would like to be informed.

The secretary was asked to include information about club dues. Dues are assessed from January to January and are set at \$12 for the twelve months. If someone should join later in the year, the dues are prorated according to the number of months left in the year. For instance, someone joining in June would pay \$6 to the end of the year. It is a lot easier to keep the books properly if this practice is followed.

It will be announced elsewhere in Q-Beat that a vote on whether to dispose of old club equipment will be held at the November meeting. A list of the club equipment will be available at the meeting.

A discussion of whether to have a public service committee occurred. This committee would be a clearinghouse for upcoming events and would probably be an outgrowth of the public relations position. Thus, Mark-WB9NFE graciously accepted chairmanship of the committee for the present.

Upcoming programs were discussed. November will be an Old Timer's Night---come and tell us what it was like when December is homebrew night. January will probably have something on satellites and February will feature the winner of homebrew night.

We need to know if there is interest for an upgrade class after Christmas. Please contact Mark (EPF) or Frank if you are considering getting together with others to upgrade.

Some discussion centered on how to contact old members and let them know we miss them. This will be examined more in the future.

There being no further business before the board, the meeting adjourned at 9:17 p.m. Next board meeting will be at Al's house.

Respectfully submitted,

Mark N0EPF

MICRO QUESTIONNAIRE

CALL.....NAME.....
I own () have access to () the following computer system: MAKE.....
MODEL..... DRIVES..... 5 1/4 () 8 ()
PROCESSOR 6502 () 8080 () 280 () 6809 ()
OTHER (). MEMORY ...K RAM ...K ROM
DISK IS SINGLE () DBL () DENSITY.
PRINTER MAKE..... MODEL.....
PAPER WIDTH.....CHARACTERS/LINE.....
SPROCKET () ROLLER () FEED, DOT MATRIX ()
LETTER QUAL.() MODEM MAKE.....MODEL.....
OPERATING SYSTEMS MDOS () C/PM () OR
OTHER.....
LANGUAGES: BASIC () ASSEMBLER () OTHER.....
PROGRAM APPLICATIONS: RTTY () GAMES ()
ASCII COMM () PACKET () ATV () OTHER.....
COMMENT/SPECIAL INTERESTS.....

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GC Electronics • Fluke Meters

Ungar • Weller/Xcelite Tools

LMB • Unibox • Waldom/Molex

SAMS Computer Facts

Let Us Help You With
Your Electronic Needs

The regular meeting of the Pikes Peak Radio Amateur Association was called to order at 7:30 p.m. October 10, 1984 in Giuseppe's Depot. There were 42 members and guests present. After introductions, Mark, NOEPF, indicated that the previous minutes had missed printing in O-Beat and gave a summary. Les, KCONC, then gave the treasurer's report. Monthly income was \$179.50 and expenses were \$158.96 leaving a balance of \$1619.20. The report was unanimously approved.

It was announced that Pueblo will be holding its first Volunteer Examiner test on December 15th. The test will be given morning and evening at the police station.

Jake, NOCYR, announced the A.R.E.S. national Simulated Emergency Test for October 21 and 22.

Don, WDOHMS, indicated a need for hams to provide locations for Boy Scouts to visit and possibly work other stations during the 27th annual Jamboree on the Air event October 21 and 22.

Ralph Streamer announced that Karl White was in the hospital with some problems. (Karl has since become a silent key. Our sympathies are extended to the White family. He will be missed at our gatherings.)

KC7BJ announced that there is a Commodore net meeting 7:00 p.m. Tuesdays on 147.225 +600.

A discussion of the format of the meeting was held in accordance with the motion to do so that was made at last month's meeting. It was moved and seconded to revert to the old format (business first and then program), with exceptions for speakers who may require or request to have the program first---such decision to be made at the chair's discretion. The motion passed 18-6.

Volunteers are needed who will be willing to work the Pikes Peak Hill Climb in July of 1985. Contact Doc. Subsequently, it was moved and seconded to approve the club's participation in the Hill Climb. The motion passed unanimously.

Don, KBOKQ, announced that the Special Olympics held during the AFA Run for the Sun was expanding and the people in charge indicated it was because of the club's service and abilities.

Mark presented the previously approved A.R.E.S. letter of support from the club for membership approval. The majority of members approved the letter.

After the break, elections of officers and board were held. The following were elected:

President--Mike KOTER
V. Pres. --Frank KL7IPV
Secretary--Mark NOEPF
Treasurer--Les KCONC

Board --Oak KORDL, Al NOCNW, Bob KODJ, Mark WB9NFE

Discussion of where to have the Christmas Party ensued. Time is drawing short and plans need to be made.

With no further business, the meeting was adjourned at 10:40 p.m. The board meeting was scheduled for October 15 at Oak's house.

Respectfully submitted,

Mark NOEPF

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TAB BOOKS

MEETING MEETING MEETING MEETING

The next regularly scheduled meeting of Pikes Peak Amateur Radio Association will be held at Giuseppe's Depot at #10 S. Sierra St. at 7:30PM on November 14th when the topic of discussion will be: Old Timers Night. Come listen to the "WAR" stories these guys can lay on you.

REMEMBER : The Saturday morning breakfast is held every Saturday at The King's Men on N. Union St. across from East High. Bring a friend...you do NOT need to be a club member to attend and all are welcome. Come swap "lies and stories" with the best of 'em.

RAMBLINGS

FROM AROUND THE WORLD OF AMATEUR RADIO
FROM WORLD RADIO Newspaper: November 1984.

"PACKET RADIO IS TRN SUBJECT"

"Packet Radio Overview and Prospective" will be the subject of the December 2nd North American Teleconference Radio Net (TRN). This net, heard over 150 gateway stations (mostly VHF repeaters) across the United States and Canada and on the OSCAR-10 satellite, will explain what packet is, describe how to get started in it, point out the benefits to you, and outline the pitfalls to be avoided. The speakers on this TRN will be none other than Lyle Johnson, WA7GXD, and Harold Price, NK6K.

Lyle is the president of the Tucson Amateur Radio Packet Society (TAPR) and was the primary developer of the TAPR terminal node controller (TNC) hardware. For his work in developing the TAPR TNC, Lyle was awarded the 1984 Technical Excellence Award at Dayton. Looking to the future, Lyle is responsible for the processor design for the upcoming amateur packet satellite (PACSAT). He became active in amateur radio in 1981, the pioneer days for this new technology.

Harold is a Director of TAPR and was on the team that designed the software for the TAPR TNC. He is also the AMSAT Project Manager for PACSAT. Harold is another packet radio pioneer, having first become active in that technology in 1982.

Packet Radio offers opportunities for the traditional communicator and for the experimenter. Learn about packet radio from two of its leading developers by tuning into TRN, Sunday, 02 December, at 6:00 PM C.S.T. (0000Z).

For a complete list of gateway station locations and frequencies, write to TRN Manager, c/o Midway ARC, P.O. Box 1231, Kearney, NE. 68847-1231, (SASE - please, Canada excepted) or check the CompuServe "Hamnet" XA4 Database.

" HOW TO KNOW WHEN YOU ARE AN OLD TIMER

You finally reach the top of the DX ladder and find it leaning against the wrong wall.

You sit in a rocking chair at the operating desk and can't get it rocking.

The first thing you look at in QST is " Silent Keys ".

Your favorite part of QST is " 50 Years Ago " & " 25 Years Ago ".

You know all the answers on how to work DX, but nobody asks the questions.

When climbing the tower, your knees buckle more than your safety belt.

You walk with your head high, trying to get used to your tri-focals.

The little grey haired old lady is your wife.

by Hal Godfrey, N6AN

MILEY'S RADIO

Jess KØTAA 719 W. 7th St. Florence, Colorado 81226 784-3040

Hours 8 to 6 Tuesday through Friday — Saturdays 8 to 12

Evening Hours 7:30 to 9 (Call Ahead)

NEW EQUIPMENT IN STOCK

Kenwood TS 930S Sale \$1380 w/auto tuner \$1545.
 Kenwood TS 430S \$695.
 PS 430 Power Supply \$134.
 Kenwood AT250 auto antenna tuner for 430S \$290.
 Kenwood TS 830S \$795.
 Icom 730 \$599.
 Icom 745 \$775.
 Yaesu FT 757GX \$735.
 Kenwood 4000A 2m & 440 FM Xcvr List \$699 Sale \$525.
 Same as above w/ voice synthesizer \$560.
 Kenwood TR-7950 45W List \$459 - Sale \$359.
 Kenwood 7930 \$314.
 Kenwood TR 2600A New HT \$305.
 New Kenwood TH21AT shirt-pocket 2 mtr. HT-1w & low power \$205.
 Kenwood TR 3500 440 MHz HT-2 only \$265.
 Santec 142 2M HT-Best HT on the Market \$259.
 New Santec LS 202A 2 mtr HT. FM/USB/LSB-.5/2.5 watts \$249.
 Santec 442 up 440 HT \$229.
 Complete line of Tokyo High Power amps & tuners at lowest prices.
 Icom 2AT HT Reg. \$269 Now \$214.
 Icom D2A1 \$305.
 Icom 4AT \$235.
 Icom 04AT \$339.
 Icom 27A \$314/Icom 27M \$364.
 Vocomm Power Pocket for IC 2A-chrgs/amp \$150.
 Mirage Amps - Low Prices
 Azden PCS 4000 \$274.
 New KDK 2033 mini 25W w/TIM & LCD display-3 only \$265.
 Yaesu FT 208R 2 mtr. synth. HT-3 only \$219.
 New Yaesu FT 209RH 5 watt FM HT \$299.
 Astron PS — ALL AMPS — Low Prices
 Welz test meters in stock.
 Kantronics interface for VIC 20 and others \$125.
 Kantronics Hamsoft for VIC 20 \$46.
 Kantronic Hamtext for VIC/Com 64 \$90.
 Kantronics Interface II - \$245.
 Kantronics Field Day II CW/RTTY reader-demo \$175.
 MFJ wet & dry dummy loads. From a cupfull to a gallon-in stock.
 New MFJ 1224 interface in stock w/free soft program \$90.
 BMC 12" green monitor \$79.
 Commodore 1702 color monitor \$245.
 Commodore 1541 Disk Drive \$239.
 Commodore MPS 801 printer \$215.
Software Galore For The Commodore 64

USED EQUIPMENT

Kenwood TR 2500 I/R 141-152 MHz \$175.
 Kenwood TR 7800 25W 2 mtr. mobile FM \$195.
 Wilson 1402SM crystal 2 meter HT -no batteries \$50.
 Azden PCS 300-2 mtr. HT exc. condition, warranty \$185.

KLM Multi 2700 2 mtr. AC/DC all mode w/Oscar 10 mtr. receiver \$295.
 Clegg FM 27B 30 W 2 mtr. FM 146-148 MHz \$100.
 Icom BC 30 desk charger \$45.
 Swan Mk II 2 KW+ amp, w/HD p.s., new finals, exc. cond. \$425.
 Swan SS 200A/168 solid state 200W 80-10 mtr. xcvr, w/p.s. & spkr. \$325.
 Yaesu FT101 2D Mk. 3-160-10 mtr. FM/WARC/digital-exc. condition \$450.
 Heath SB 110 6 meter 55B, 145 W & Heath HP 23 PS \$225.
 Heath Shawnee 8 meter AM w/AC & DC adapters \$50.
 Heath HW 7 CW novice xcvr. \$70.
 Tempo 2020 w/ext. VFO & matching spkr., Heath phone patch, complete station \$425.
 Tempo One w/AC, p.s. & spkr. \$235.
 Murch UT 2000 universal transmatch-mint \$110.
 Hal CT 2200 and keyboard-like new \$450.
 Galaxy 5 w/ AC supply and speaker \$195.
 Galaxy DC1000 mobile power supply \$25.
 Collins KWM 2A nice cond.-round emblem-all filters-100 xtra crystals CALL
 Collins 75 A4 exc. condition-3 filters \$195.
 Collins KWS 1-works good, nice condition \$295.
 Collins R 392 HD AC supply, manuals and some spare tubes, power and headphone connectors \$190.
 Drake TR 4 w/PS & digital \$355.
 Drake TR 4 w/p.s. \$325.
 Mini Products HQ-7 6-20 mtr. mini quad-up 2 weeks, covenant victim \$125.
 Palomar 90A 25 In 300 PEP out amp, 40-10 meters \$150.
 TRS 80 pocket computer #26-3501, cassette interface #26-3503, 2 cassette tapes (business/finance) All for \$75.
 RCA volt-ohmmist w/o probes
 Simpson digital VOM-recent factory calib. w/books \$175.
 Panasonic 13" B/W TV-solid state, AC only-nice condition \$50.
Wide selection of amateur antenna-base, mobile, HF, VHF, UHF at reduced prices
We now stock Hygain, Hustler, Cushcraft and Larsen antennas
 The new ARRL "The FCC Rulebook" — \$3.00
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 New Repeater Directories In Stock
 New ARRL Satellite book \$10.00
 New ARRL Name Index Directory
 ARRL, Ameco and Bash books and tapes
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50 PRINT " GREAT CIRCLE DISTANCE AND BEARING CHART"
52 REM PROGRAMMED BY GARY EVANS, AA6R & RELAYED BY SCOTT THOMPSON, KB6CC
55 PRINT
60 PRINT" DO YOU NEED INSTRUCTION? - YES OR NO "
65 INPUT I$
70 IF I$="NO" THEN 165
100 PRINT"THIS PROGRAM CALCULATES GREAT CIRCLE DISTANCES IN"
110 PRINT"STATUTE MILES & KILOMETERS AND BEARINGS BETWEEN"
120 PRINT"YOU AND THE REST OF THE WORLD. LATITUDES IN THE"
130 PRINT"NORTHERN HEMISPHERE ARE POSITIVE AND SOUTHERN "
135 PRINT"HEMISPHERE ARE NEGATIVE. LONGITUDES IN THE EASTERN "
140 PRINT"HEMISPHERE ARE POSITIVE AND THE WESTERN HEMISPHERE"
150 PRINT"ARE NEGATIVE. ALWAYS USE DEGREES WITH DECIMAL "
155 PRINT"PARTS - NO MINUTES AND SECONDS.?"
160 PRINT
170 PRINT"WHAT IS YOUR NAME AND CALLSIGN?"
175 LINE INPUT N$
180 PRINT"WHAT IS YOUR LOCATION?"
185 LINE INPUT W$
190 PRINT"WHAT IS THE LATITUDE OF YOUR LOCATION?"
195 INPUT A
200 REM CONVERT A TO RADIANS
205 LET A1=A*3.14159/180
210 PRINT
215 PRINT"WHAT IS THE LATITUDE OF YOUR LOCATION?"
220 INPUT L1
225 LET J=0
230 LET F=0
240 GOSUB 2000
260 PRINT"SELECT THE FUNCTION YOU WANT AND ENTER THE NUMBER."
265 PRINT
270 PRINT"1-GLOBAL GRID CENTERED ON YOUR LOCATION"
275 PRINT" (LAT EVERY 15 DEGREES & LONG EVERY 30 DEGREES)"
280 PRINT"2-BEARINGS AND DISTANCES TO MAJOR U.S. CITIES."
285 PRINT"3-BEARINGS AND DISTANCE TO DX LOCATIONS FROM THE"
290 PRINT"ARRL COUNTRIES LIST - LISTED BY CALL PREFIX."
292 PRINT"4-BOTH U.S. CITIES AND DX LIST"
295 PRINT"5-BEARINGS AND DISTANCE TO USER SELECTED POINTS"
300 PRINT"6-ENTER NEW CENTRAL LOCATION"
305 PRINT"7-TERMINATE THIS PROGRAM"
307 PRINT
310 INPUT S
315 ON S GOTO 400,515,605,510,700,50,9999
400 GOSUB 2000
401 PRINT"GREAT CIRCLE COORDINATES CENTERED ON ";W$
405 PRINT
410 PRINT"PROGRAMMED FOR ";N$
430 PRINT
435 PRINT"LATITUDE LONGITUDE MILES KILOMETERS BEARING "
437 PRINT"~~~~~"
440 FOR L2=180 TO 180 STEP 30
450 FOR B = -90 TO 90 STEP 15
460 GOSUB 1000
465 PRINT TAB (3);B;TAB(11);L2;TAB(22);D1;TAB(30);D2;TAB(44);R2
469 LET K=K+1
470 IF K=55 THEN 485
475 NEXT B
480 NEXT L2
482 GOTO 250
485 GOSUB 2000
490 PRINT"LATITUDE LONGITUDE MILES KILOMETERS BEARING"
491 PRINT"~~~~~"
495 GOTO 475
510 LET F=1
515 GOSUB 2000
520 PRINT" CITIES LIST CENTERED ON ";W$;" FOR ";N4

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